

Elite 2560(A/B) Datasheet



Overview

Elite 2560 series lithium iron phosphate (LFP) battery modules are specially designed for multiple applications by Voltgo. These battery modules adopt an ABS shell, which can be used 24/7. They have outstanding advantages of being waterproof, Bluetooth, heating feature, impact resistance, good insulation performance, easy installation and maintenance-free. These allow them to meet the application of RVs, solar lights, small medical equipment, toys and some small energy storage systems. Battery modules own intelligent BMS inside, which offers great advantages in terms of safety, cycle life, energy density and temperature range.

	Elite 2560A	Elite 2560B		
Basic Parameter			Life Cycle	
Rated Voltage (V)	12.8	25.6	Cycle Life(Time)	>6000 (0.5C@ 25°C,80% DOD)
Rated Capacity (Ah)	200	100	Design Life (Year)	15
Rated Energy (Wh)	2560	2560		
Operation Parameter			Environment Parameter	
Voltage Range (V)	10~14	22.4~28	Humidity (%)	5~95% RH
Cut-off Voltage (V)	10	22.4	Charge Temperature Range	-20~45 °C / -4~113°F(Heating)
Recommend Charge Current (A)	≤60	≤30	Discharge Temperature Range	-20~55 °C / -4~131°F
Max Constant Charge Current(A)	150	100	Storage Temperature Range	-20~45 °C / -4~113°F
Max Discharge Current (A)	150A(Constant) 250A(Pulse: 30s)	150A(Constant) 200A(Pulse: 30s)		
Physical Parameter			Certification	
Dimensions :W*D*H	460*220*212(mm) 18.11*8.66*8.35(in)		Safety & Certification	CE, (IEC62619 in progress)
Weight	25(Kg) 55(lb)		Transportation	UN38.3
Display Method	Bluetooth			

Key Features



MINIMAL INSTALLATION

This battery owns a special structure design. The metal strips can be used not only as a handle but also as a “floor lock” & “rear lock”, and as a connecting strip when multiple batteries are used in combination, which can greatly improve installation efficiency and reduce the need for special tools.

Multiple batteries combination



Heating Feature and Low-temp Protection

When the ambient temperature is between $-20\sim 0^{\circ}\text{C}$ and an external power input exists, the heating feature will automatically be triggered to ensure that the battery can be charged normally ($0\sim 45^{\circ}\text{C}$)



Bluetooth

Monitoring the battery operation status (Voltage, Current Temperature, SOC, etc.) in real time with the built-in Bluetooth module on mobile devices



Other Features



Compact Design

Smaller size & Lighter weight can save more space compared with VRLA battery.



Detachable Design

The detachable design ensures good maintainability of the battery and avoids damage to the case during possible repairs. (Repair requires trained engineers and professional equipment, and non-professional operations may result in a lower IP rating, ultimately affecting your product warranty).



High IP Rating

Ip65 design meets most application scenarios.



Intelligent BMS

The battery management system (BMS) provides short circuit, over-voltage, low-voltage, over-temp, low-temp protection.



Maintenance-free

Quality cells ensure more than 6000 cycles (0.5C, 80%DOD@25 $^{\circ}\text{C}$), maintenance-free during the whole lifetime, and a wide operating temperature range.



Smart Balancing

Built-in balance circuit will be automatically triggered while reaching set conditions, which will greatly improve the consistency of the battery and extend its lifespan.

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